



APPENDIX G Environmental Checklist Form

- 1. Project title: Sacramento River Restoration: Chico Landing Sub-reach RM 178-206
- 2. Lead agency name and address: <u>California Bay-Delta Authority, 650 Capitol Mall, 5th Floor,</u> Sacramento, CA 95814
- 3. Contact person and phone number: Rhonda Reed, CBDA; 916-445-5511
- 4. Project location: Three tracts of land within the Sacramento River Conservation Area: Sunset Ranch, which is a 25-acre tract south of Hwy 32 in Butte County; Capay, which is 550 acres in Glenn County southeast of Hamilton City; and Deadman's Reach, 238 acres approximately one-half mile north of Ord Ferry Road in Butte County.
- 5. Project sponsor's name and address: <u>The Nature Conservancy</u>, 500 Main St., Chico, CA 95928 office (530) 897-6370, ext. 213
- 6. General plan designation: Intensive agriculture (Glenn County) and Orchard and Field Crops (Butte County)
- 7. Zoning: <u>The parcels in Butte County are zoned A-40; the Glenn County parcel is agricultural</u> preserve
- 8. Description of project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)

Sacramento River Restoration: Chico Landing Sub-Reach RM 178-206 is a restoration project to restore approximately 813 acres of land on three tracts in Butte and Glenn Counties. Sunset Ranch (25 acres) is located in Butte County at river mile 199 east bank. Capay (550 acres) is located in Glenn County at river mile 194-193 west bank. Dead Man's Reach (238 acres) is located in Butte County at river mile 186.5-185 east bank. All three parcels are part of the US Fish and Wildlife Service Sacramento River National Wildlife Refuge.

The project will consist of vegetation removal and replacement as necessary to meet the goal of riparian habitat restoration that will improve the ecological health and long-term viability of at-risk species and biological communities of the Sacramento River while simultaneously increasing the benefits (e.g., improved water quality, flood damage reduction), that the river provides to humans. Vegetation removal will include removal of full-size almond trees (Deadmans Reach site only), mowing, tilling with tractors and application of herbicide. Some irrigation systems will be modified and eventually removed. In order to eradicate non-native plants, repeat applications of herbicides may be used. The intended replacement vegetation includes grasses, cover crops, riparian herbs and shrubs, willows, cottonwoods, and oaks. Precise footprints of plantings are not available at this time but will be developed during the planning phase of the project after completion of CEQA requirements. The project will be informed by previously approved research being undertaken by The Nature Conservancy (TNC) designed to test non-native plant eradication and native plant recruitment techniques. TNC intends to use subcontracts with local farmers to maintain the plantings at a level of 80% survival.

This project is consistent with, and would implement the CALFED Ecosystem Restoration Program plan in the Red Bluff Diversion Dam to Chico Landing and Chico Landing to Colusa Ecozones. The ERP plan is available for review at

http://calwater.ca.gov/Programs/EcosystemRestoration/Ecosystem.shtml.
As a CALFED Ecosystem Restoration Program project, the project proponents will follow the CALFED Multi-species
Conservation Strategy for any necessary endangered species act compliance for the project. This project is supported by the USFWS and will conform to the USFWS Comprehensive Conservation
Plan and Environmental Assessment for the Sacramento River National Wildlife Refuge and will conform to performance standards outlined in that document such as buffers, vector control, fencing, etc.

9. Surrounding land uses and setting: Briefly describe the project's surroundings: <u>The project will occur at 3 discrete sites amid a predominantly-agricultural floodplain area. The areas around the 3 sites are either in conservation ownership, easement or continuing agriculture</u>

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.) The CBDA is a state agency which must comply with CEQA and the lead agency for this project. Other permitting requirements are being evaluated. It may be awarding a grant to The Nature Conservancy to carry out the project. The Nature Conservancy is authorized by the US Fish and Wildlife Service to perform habitat restoration work on the subject parcels.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages. Aesthetics Agriculture Resources ☐Air Quality ⊠Biological Resources ☐Geology /Soils Hazards/Hazardous Materials ⊠Hydrology / Water Quality □Land Use / Planning Mineral Resources **□**Noise ■Population / Housing Public Services Recreation ☐Transportation/Traffic Mandatory Findings of Significance ☐Utilities / Service Systems DETERMINATION: (To be completed by the Lead Agency) On the basis of this initial evaluation: ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared. ☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared. I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required. I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect has been (1) adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed. I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects have been (1) analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (2) avoided or mitigated

2

pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation

Date

Title: Deputy Program Manager, ERP

measures that are imposed upon the proposed project, nothing further is required.

Signature

Printed name: Rhonda Reed

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2. All answers must take account of the whole action involved, including off-site as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where they are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9. The explanation of each issue should identify:

a) the significance criteria or threshold, if any, used to evaluate each question; and
b) the mitigation measure identified, if any, to reduce the impact to less than significance

Checklist text appears as plain font and project-specific responses and discussion (e.g. significance criteria) as *italics*.

g				
	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated		No Impact
I. AESTHETICS Significance criteria for aesthetics: A significant impact would keepetation, or structural features create substantially increased compared to surrounding conditions. Would the project:				
a. Have a substantial adverse effect on a scenic vista?			\boxtimes	
This floodplain area does not offer many topographic high poir viewed. Nevertheless, there will be some changes to the appeauil be changed from cropland and orchard to complex riparian intention is for vegetation and wildlife variety to increase, making change in aesthetics. (Reference 1, page 3)	earance a and sa	of the ar vanna ed	ea. Lan cosystem	dscape is. The
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				\boxtimes
There are no scenic highways within visual distance of the pro	ject site.	s. (Refer	ence 2)	
c. Substantially degrade the existing visual character or quality of the site and its surroundings?			\boxtimes	
The project may include removal of vegetation, which will be u but the predominant change in the visual character of the site and abandoned orchards with a mixture of grassland and ripar natural and undisturbed. (Reference 5, pages 7-13 and elsewh	will be to ian fore:	o replace	fallow c	ropland
d. Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?				\boxtimes
The project will not include installation of lighting. (Reference 5	ō, page	127)		
II. AGRICULTURE RESOURCES: In determining whether imp significant environmental effects, lead agencies may refer to the Evaluation and Site Assessment Model (1997) prepared by the as an optional model to use in assessing impacts on agricultur	ne Califo e Califor	rnia Agri nia Dept	cultural I . of Cons	_and servation
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	\boxtimes			

Two of the three parcels involve land that is classified as prime and statewide important on the FMMP maps. The 238-acre Deadman's reach parcel in Butte County includes prime soils; the 550-acre Capay parcel in Glenn County includes prime and statewide important soils; the 25-acre Sunset parcel in Butte County includes no soils of statewide importance or local significance. The parcels have been used for agricultural production in the past, but are highly flood prone. The proposed project would permanently change the condition on the property to a non-agricultural use, however, whether this change constitutes a significant effect on the physical environment requires further evaluation.

b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?				\boxtimes
Williamson Act contracts are no longer in effect on any of the properties are owned by the United States.	he three pro	perties.	All three)
The Glenn County zoning code provides for use of the Cap (Reference 12)	pay parcel a	s wildlife	refuge.	
The two Butte County sites are zoned agricultural and the suse as publicly-accessible wildlife refuge. (See Butte Count and 24-90). However, the Land Use Element of the General water-related recreation facilities" and "environmental presultowed within the Orchard and Field Crops zone. (Referent under federal ownership.	ity Code, es _l al Plan provi ervation acti	pecially (ides that ivities" a	Sections "hunting re secon	24-20(c) g and dary uses
c. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?			\boxtimes	
CEQA requires consideration of direct and indirect effects a habitat adjoins farmed land, there is potential for insects are on adjacent fields, for instance) or for farming practices to a chemicals into the refuge environment, for instance.) In a standard land use could lead to farmland being taken out of such effects on adjoining parcels would be potential indirect Comprehensive Conservation Plan for these lands (Refere prevented or mitigated by instituting a "buffer zone" conceptare incompatible with standard agricultural practices at the Refuge lands are managed (as with fencing, for example) to onto neighboring private lands, so no loss of agricultural provandalism or theft, for instance), is anticipated. (Reference	nd animals to affect wildlife worst-case so for production of effects. Before 5), these of (not plantific edges of the prevent troductivity of	o damage (wind control of the contro	ne crops Irift bring Irift bring Irift bring Irift conflict Irift subject Irift analot Irift impact Irift analot Irift impact Irift analot Irift impact Irift analot Irift impact Irift analot Irift analot Irift impact Irift analot Irift impact Irift analot Irift impact Irift imp	(foraging ping with the topoject, lysis in the same will be sants that public
The proposed project will not contribute to conversion of ag (such as commercial or residential use), because there will support development.				
III. AIR QUALITY Where available, the significance criter quality management or air pollution control district may be determinations. Would the project:				
Significance Criteria – the project would be considered sign quality if it violated a standard or (if technically exempt) wa standard.				
Conflict with or obstruct implementation of the applicable air quality plan?				\boxtimes

The project would include operation of tractors. Although the Northern Sacramento Valley Air Basin is being impacted by emissions from gasoline and diesel-burning agricultural equipment, operation of such equipment does not violate or obstruct implementation of any applicable air quality plan. The local program most resembling an air quality plan is: the districts and the basin are implementing the requirements of SB 700 (which regulates stationary diesel-fueled irrigation pumps) as applying to growers of more than 1,850 acres of rice or more than 7,140 acres of orchard crops; this project will not fall into that category. (Reference 3)

 Violate any air quality standard or contribute substantially to an existing or projected air quality violation? 			\boxtimes		
The project will include operation of some machinery whils to may also involve practices which generate relatively some significant contributor to air pollution in the particles less (PM10)category. However, the project will put permaner lands which have been plowed (wind blowing on bare some past, so the net contribution of the project to violation of a less than significant. (Reference 1, pages 2-5)	nall amount than 10 mic nt vegetative il can contri	s of dust. rons in di cover in bute to Pl	Dust is a ameter place on M10 pollu	some some	•
c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?			\boxtimes		
The project will occur in Butte and Glenn Counties. Butte for ozone, PM2.5 and PM10. Glenn County is designate ozone and non attainment for PM10. (Reference 10) Thi only during implementation of the restoration but overall	d as non att is project ma	ainment- ay have s	transitiona hort-term	al for impacts	
d. Expose sensitive receptors to substantial pollutant concentrations?				\boxtimes	
The proposed project would not include any housing or long that the potential to expose sensitive receptors such chronically ill. (Reference 5, pages 118-119)					
e. Create objectionable odors affecting a substantial number of people? The proposed project will occur on federal property in a significant of herbicides of plants, such odors are not likely to be perceptible to anyonized in the project.	or fertilizer d	or by deco	omposing	mud or	
V. BIOLOGICAL RESOURCES Significance criteria: Substantial temporary or permanent significant food source or nesting tree), restriction of anind decrease in number of individual special status plants or significant effect.	nal migratioi	n on the p	property, o	or	
Would the project:					

6

a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in

California Department of Fish and Game or U.S. Fish and Wildlife Service?	\boxtimes			
Because the fields and ditches in these former agricultural lands supporting Swainson's hawks, giant garter snakes and burrowir adverse impacts to these species will have to be incorporated in project. Because the riparian forest along the Sacramento Rive occupied by yellow-billed cuckoo, procedures to avoid impact to incorporated into the project. At a minimum, areas where work qualified biologists to determine the presence of special-status states.	ng owls, nto resto er and Pi o this spe might oo	procedu ration pl ne Cree ecies will ccur mus	res to pr lans for to k could b I also ha st be surv	event he be ve to be veyed by
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	\boxtimes			
The parcels all have been farmed and any riparian or sensitive to be maintained and not be disturbed. Potential short-term imples require further evaluation. The project will be restoring areas to	mentatio	n relate		
c. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
The parcels all have been farmed and thus do not contain any for	ederally	protecte	ed wetlan	nds.
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
Avoiding impact to wildlife migratory corridors and nursery sites the restoration plans and the revegetation project.	will be a	a priority	requiren	nent of
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				\boxtimes
The proposed project will take place on federal land.				
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				\boxtimes
The proposed project is part of a comprehensive plan for enhand Sacramento River and is in harmony with the CALFED multi-spec (Reference 5, appendix A)				

V. CULTURAL RESOURCES

Significance criteria: Loss of any cultural or historic resource would be a significant impact.

Would the project: a. Cause a substantial adverse change in the significance of a historical resource as defined in ¤15064.5? The area is understood to be under the control of the US FWS, which must comply with the National Historic Preservation Act. The 2004 Comprehensive Conservation Plan for the SRNWR indicates that a Cultural Resource Overview and Management Plan will govern how the cultural resources within these parcels will be identified and protected. The California Bay-Delta Authority will require that work be performed in compliance with this Plan. (Reference 5, pages 71-72) b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to ¤15064.5? \boxtimes The California Bay-Delta Authority acknowledges that archaeological and cultural resources on the properties to be revegetated are protected by federal law. To prevent inadvertent damage to cultural resources, the project will be governed by the Cultural Resource Overview and Management Plan already in place. c. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? \boxtimes There are no known unique paleontological resources or unique geologic features. This will be further analyzed and incorporated into the Cultural Resource Overview and Management Plan already in place. d. Disturb any human remains, including those interred outside of formal cemeteries? \boxtimes The project will be conducted in compliance with the Cultural Resource Overview and Management Plan already in place. (Reference 5, pages 71-72) VI. GEOLOGY AND SOILS -Significance criteria: any erosion of soil off-site, any increase in seismic risk, inappropriate use of soil that could cause a loss of equipment or improvements would be considered a significant impact. Would the project: a. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. \bowtie Map 6, dated 1994 (Jennings) was reviewed instead of Publication 42. The Chico Monocline appears to separate the project area from any mapped earthquake activity. (Activity is to the

east of the Chico Monocline, which runs roughly NW/SE.) Even if it experienced an

	earinquake, ine project would be unanected because the pr	ojeci iriv	oives ve	getation	raurier
	than people or structures. ii. Strong seismic ground shaking?				\boxtimes
	See i, above.				
	iii. Seismic-related ground failure, including liquefaction?				
	See i, above. iv. Landslides?				\boxtimes
	See i, above .				
b.	Result in substantial soil erosion or the loss of topsoil?			\boxtimes	
pro Sac	ere is the potential for flood flows to erode these properties, v posed project provides for flooding. It includes planting of sp cramento River floodplain and riparian areas. Rather than be eference 5, page A-12)	ecies w	hich hav	e evolve	d in the
and	Be located on a geologic unit or soil that is unstable, hat would become unstable as a result of the project, I potentially result in on- or off-site landslide, lateral eading, subsidence, liquefaction or collapse?			\boxtimes	
the	ts environmental assessment for restoration on these proper possibility of near-term erosion and sedimentation would be orded by the cover and root systems of the permanent vegeta	offset b	y long-te	rm prote	ection
	Be located on expansive soil, as defined in Table 18- of the Uniform Building Code (1994), creating estantial risks to life or property?				\boxtimes
Thi	s is not an issue because the project does not include constr	ruction (I	Referenc	e 1, pag	ie 3)
	Have soils incapable of adequately supporting the use septic tanks or alternative waste water disposal systems are sewers are not available for the disposal of waste ser?				\boxtimes
	e proposed project will not include any new septic systems o atment. (Reference 1 page 3)	r wasteı	vater tha	at require	es
Sig	HAZARDS AND HAZARDOUS MATERIALS nificance criteria: Creating new hazards or causing a negativelic safety or environmental health would be a potentially signate. Would the project:	_		ting haz	ards to
a. us	Create a significant hazard to the public or the environment e, or disposal of hazardous materials?	nt throuឲ្	h the ro		nsport,
		Ш			Ш
	e project will require use of regulated herbicides (Reference a ntinuous or routine basis; herbicide use is not considered disp				rial.

b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				\boxtimes	
The proposed project will comply with the USFWS policy requirematerials are not stored on site. (Reference 9)	ing that	chemica	als and h	azardous	
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				\boxtimes	
The project is not in proximity to a school and will not involve acutely hazardous materials. (Reference 8)					
d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				\boxtimes	
The Chico groundwater plume may or may not underlie portions. There would only be short-term use of groundwater from existing				ce 11).	
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				\boxtimes	
The project is more than two nautical miles distant from an airpo	ort. (Ref	erence i	7)		
f. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				\boxtimes	
The proposed project is not in the vicinity of a private airstrip. (F	Referenc	ce 7)			
g. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?					
The proposed project will occur on sites without public roads.					
h. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				\boxtimes	
The proposed project will not expose people or structures to significant with the comprehensive conservation plan for the Sacramento Wildland fire prevention and management is provided for in the plan. (Reference 5, page 116)	River Na	ational W	/ildlife R	efuge.	

VIII. HYDROLOGY AND WATER QUALITY
Significance criteria: Any negative change to water quality off site or any re-routing or use of water which changed water availability offsite would be a significant effect.

Would the project:				
a. Violate any water quality standards or waste discharge requirements?				
The project will evaluated to determine if it needs to implement requirements of the Regional Water Quality Control Board if the				tices and
b. Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?			\boxtimes	
The project will use groundwater for short-term irrigation from ea	xisting a	agricultu	re wells.	
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	\boxtimes			
The project is restoration of three parcels that would benefit from	m siltatio	on on-sii	te.	
d. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	\boxtimes			
This factor will be analyzed with the appropriate hydrologic met	hodolog	ıy.		
e. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? The project will not provide an additional source of polluted runoff.	□ off in the	□ e amoun	⊠ t that wo	□ puld
exceed capacity of drainage systems.				
f. Otherwise substantially degrade water quality?				
The project should not substantially degrade water quality.				
g. Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				\boxtimes
Although it will be located in floodplain (Reference 13), this projection therefore this question requires no further investigation.	ect does	s not inc	lude hou	using, so
h. Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				\boxtimes
This proposed project will not include construction of any structu	ures. (F	Referenc	e 1, pag	re 3)

i. Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?							
This project will provide for habitat restoration on three parcels of land within the complex of properties that make up the Sacramento River National Wildlife Refuge. When the Fish and Wildlife Service examined the larger project for its potential to contribute to flood damage, it found that the net effect of converting these agricultural properties to native vegetation is a reduction in flood risk to neighboring properties. (Reference 5, A-28)							
j. Inundation by seiche, tsunami, or mudflow?				\boxtimes			
The project is not in proximity to such hazards because of its loc	cation so	far inla	nd.				
IX. LAND USE AND PLANNING Significance criteria: Actions that would conflict with existing local plans or preclude other parcels from uses that are in compliance with zoning would be a potentially significant impact Would the project:							
a. Physically divide an established community?				\boxtimes			
The proposed project will occur on unoccupied land which does (Reference 4)	not divi	de an ex	risting co	mmunity.			
b. Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				\boxtimes			
The "Capay" parcel is United States government land in Glenn agricultural. (Reference # 12.) The zoning law there provides the not limited to growing crops and raising animals. This indicates with local land use policy in Glenn County.	at permi	tted use:	s include	but are			
The two Butte County locations, however, may require further recode indicates that the subject parcels, which are zoned A-40, as use or non-agricultural use except if a special use permit or other Board of Supervisors or zoning administrator. However, the Lar Plan provides that "hunting and water-related recreation facilities preservation activities" are secondary uses allowed within the O (Reference 21)	are not z er excep nd Use E s" and "e	oned to tion is is Element environn	provide to sued by of the General to the General to the great the General to the great	for public the eneral			
c. Conflict with any applicable habitat conservation plan or natural community conservation plan?		\boxtimes					
The project will not conflict with a habitat conservation plan or replan. However, to avoid negative impacts to giant garter snake beetle, the US FWS has adopted mitigation measures 3 and 4 cenvironmental assessment and FONSI. These mitigation measureference. (Reference 5, A-32, A-33)	and Va of the SF	lley elde RNWR C	rberry lo	nghorn			
X. MINERAL RESOURCES Significance criteria: permanent and irreversible loss of quanta exploratory drilling) mineral resources Would the project:	ifiable (v	vithout b	enefit of				

a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				\boxtimes		
The proposed project will occur on US Fish and Wildlife Service already controls access to mineral resources. (Reference 5, page		vhere the	e refuge	manager		
b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?			\boxtimes			
The project area is not delineated as such. Although the floodplain includes some deposits of gravel because the bed of the Sacramento River has shifted over time, the fact that gravel is plentiful elsewhere combined with the awareness that significant amounts of public funds will be spent to revegetate these properties, leads to the conclusion that this mineral resource will no longer be available to be mined. This issue will be evaluated (Reference # 14.)						
XI. NOISE Significance criteria: an effect would be considered significant if in ambient noise levels offsite at any time of day.	it lead to	o a meas	surable ii	ncrease		
 Would the project result in: a. Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? 				\boxtimes		
The project will include some normal farming activities, such as operation of tractors, which are a less than significant source of noise. Local standards do not restrict such activities on the basis of noise-generating potential. (Reference # 6.)						
b. Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				\boxtimes		
The project includes vegetation removal and replanting, which a generate excessive levels of ground-borne noise or vibration (Re				ould		
c. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				\boxtimes		
The project will not include noise-generating activities on a long- operation of agricultural equipment in these sites is not consider standards. (Reference # 6.)				t-term		
d. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				\boxtimes		
Because it will occur on sites surrounded by wildlife habitat and not expected to change ambient noise levels. (Reference #5, page 1)			es, the pi	roject is		
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				\boxtimes		

approximately 7 miles away. (Reference 7)	gn Fiela i	near On	ana,			
f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				\boxtimes		
Available information does not indicate the presence nearby of 7)	any priv	ate airst	rips. (Re	ference		
XII. POPULATION AND HOUSING Significance criterion: any change in the number of available ho for housing would be significant Would the project:	ousing un	iits or in	the local	l demand		
a. Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			\boxtimes			
The project will enhance a public amenity and possibly increase provide infrastructure that will lead to development. (Reference		in the a	rea but i	t will not		
b. Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				\boxtimes		
No housing will be displaced by the project. (Reference 1, pages 9-12)						
c. Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				\boxtimes		
The project will not require people to relocate, because it will no (Reference #1, pages 9-12.)	t involve	demolit	tion of ho	ousing.		
XIII. PUBLIC SERVICES Significance criteria: any permanent increase in response time of excess of what would be expected under a "no project" scenario inability to serve the project, would be potentially significant. a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:						
i. Fire protection?						
ii. Police protection?						
iii. Schools?				\boxtimes		
iv. Parks?				\boxtimes		
v. Other public facilities?	\boxtimes					

There is the potential for a significant impact to a local public road as a result of the project. This potential impact requires further study to determine its likelihood and if it can be mitigated. The proposed project could indirectly contribute to existing flooding problems in the area south of the Deadmans Reach parcel. Under normal conditions, the roots of willows, oaks, cottonwoods, and other desirable species should help hold soil in place during high water events, but there is the potential for plants to be uprooted and washed away in severe floods. When floodwaters uproot vegetation and wash it into weirs or other infrastructure which can become clogged, Ord Ferry Road is threatened by overland flooding and washout. (Reference # 16.) Ord Ferry Road traffic counts from the year 2003 indicate approximately 3400 vehicles per day (1700 each direction) use this stretch of road. (Reference 17) Ord Ferry Road provides access to Glenn County via a bridge over the Sacramento River. When the road is not passable, its function in local transportation is lost. This could in turn lead to slower response times for emergency vehicles, local traffic having to use alternate, (sometimes greater-distance) routes, and difficulty for the project proponent to access the site also.

XIV. RECREATION -

Significance criteria: interference with recreational opportunities offsite would be considered significant.

a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				\boxtimes
The proposed project will not require use of existing neighborhologies entirely on federally-owned land. (Reference 1, page 2)	ood and	regional	parks.	It will take
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?			\boxtimes	
The project is intended to carry out habitat restoration on wildlife recreational facilities. The project will include temporary and lor lands, including removal of undesirable plants. Overall, the fund wildlife refuge lands should be enhanced by the project. (Reference)	ng-term ctionality	modifica	tions to	these
XV. TRANSPORTATION/TRAFFIC Significance criteria – permanent net increase in traffic or increace congested corridors would be a potentially significant impact. Would the project: a. Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?	ase in slo	ow-movi	ing vehic	eles on
The project will not increase traffic on public roads and intersect parcels where access is controlled by the USFWS.	tions be	cause it	will occı	ır within
b. Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?				
The project will not contribute to traffic congestion.				

c. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				\boxtimes			
The proposed project will not affect air traffic.							
d. Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				\boxtimes			
The project will not include hazards due to design feature and use of equipment is short term for restoration activities.							
e. Result in inadequate emergency access?				\boxtimes			
Emergency access should not be impaired.							
f. Result in inadequate parking capacity?				\boxtimes			
The project will not include designated parking areas because visitor parking is not one of the objectives. Parking could in the future be provided at the Capay parcel at the discretion of the FWS. For purposes of this investigation, it is assumed that such parking will not be constructed on land that has been revegetated using public funds. Visitors to the two other areas, Sunset and Deadman's Reach, will arrive by boat. (Reference # 18)							
g. Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts and bicycle racks)?				\boxtimes			
No impact. No such policies are in place on the refuge. (Refere	ence 5, _l	page 5)					
XVI. UTILITIES AND SERVICE SYSTEMS An impact that created a need to expand utilities and have the cost subsidized by other ratepayers, or an impact that precluded other parcels from using existing utilities would be considered significant. – Would the project:							
a. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				\boxtimes			
The project will not generate wastewater that requires treatment. A spill prevention and countermeasure plan will be enforced to prevent inadvertent discharge to water. (Reference 5, page A-30)							
b. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				\boxtimes			
The project will not include expansion of existing or construction wastewater treatment facilities. (Reference 1, pages 2-5)	of new	water tr	eatment	or			
c. Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				\boxtimes			
There will be no change in constructed storm water facilities.							

d. Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				\boxtimes			
Water needs for irrigation are short-term and available.							
e. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				\boxtimes			
The project will not use a wastewater treatment provider.							
f. Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				\boxtimes			
The project will not generate waste that requires landfill disposal. If woodwaste is generated by emoval of trees, it will be used as fuel in a cogeneration facility. (Reference 19)							
g. Comply with federal, state, and local statutes and regulations related to solid waste?				\boxtimes			
The project will be conducted in compliance with local, state and solid waste. (Reference 19)	US FW	S rules v	vith rega	rd to			
XVII. MANDATORY FINDINGS OF SIGNIFICANCE -							
a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?			\boxtimes				
The proposed project will improve the biological diversity and habitat quality of the environment. Mitigation measures to protect existing threatened and endangered species will be incorporated into the project.							
b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)	\boxtimes						
Two aspects of the project require further investigation to determine their significance as a factor in a general trend. These are the contribution of the project to decreasing farmland acreage and the contribution of the project to increased likelihood of flood damage to infrastructure.							
Development projects such as construction of housing and stores, are sometimes sited on farmland, contributing to urban sprawl problems in many parts of the State. The CALFED Bay-Delta Ecosystem Restoration Program (ERP) is not a land development program. It is a program							

to support projects that improve wildlife habitat, among other things. This is sometimes done

through supporting "wildlife-friendly" farming practices which make it possible for agricultural land to provide wildlife habitat on the same acreage that is in production, and it sometimes, as is the case with the proposed project, involves cessation of farming so that high-quality habitat can provide increased likelihood of recovery for species and communities that are endangered, threatened or otherwise 'at-risk.'

Information from the California Department of Conservation (Reference 20) indicates that in Butte and Glenn counties, relatively little prime farmland or irrigated farmland has been converted directly to urban uses in recent years. Although urban development is occurring (the net increase in urban and built-up land between 2000 and 2002 in Butte County was 2,156 acres and in Glenn county was 342 acres), it is relatively slow compared to the conversion of farmlands to "other uses." The amount of Butte County non-grazing farmland acreage converted from farming to urban and built-up use between 2000 and 2002 was 338 acres and the in Glenn County it was 327 acres. Therefore, in these two counties, other factors than urban development appear to be causing the decrease in farmed land. It is as yet undetermined if improvement of the SRNWR is a significant part of these other factors.

The potential for impacts associated with floods is another subject which requires more analysis in order to determine whether there could be a significant impact as a result of this project. The portion of the project which is most downstream could be in the path of floodwaters that are diverted from the Sacramento River in order to protect urban areas farther downstream. The question whether flood damage is incrementally increased by changing the vegetation in the floodpath requires further investigation.

c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				\boxtimes
The proposed project is intended to change the vegetation of humans for recreation.	on federal l	and that	is used	by

Reference List

- "ERP-02D-P65 Supplemental Fund Proposal: Sacramento River Restoration: Chico Landing Sub-Reach RM 178-206 (2002 ERP Directed Action #171)" prepared by The Nature Conservancy ca September 15, 2004
- California Scenic Routes, published by CalTrans on the <u>www.dot.ca.gov</u> website; information was accessed 9/17/2004
- 3) personal communication, K. Tokunaga, Glenn County air district
- 4) US GS 7.5 minute quad maps: Ord Ferry and Rock Creek quads
- Sacramento River National Wildlife Refuge draft CCP and Environmental Assessment, July 2004
- 6) Section 19.23.110, Glenn County Code, and personal communication, Gary Brown, Butte County
- 7) Airport information and map, Glenn County and U.S.G.S.
- 8) Butte County Office of Education website, www.bcoe.org
- 9) Correspondence, Kelly Moroney, refuge manager
- 10) Area designations for 2003, CalEPA, Air Resources Board
- 11) "Site Mitigation and Brownfields Reuse Program (aka Calsites) Database, accessed at www.dtsc.ca.gov
- 12) correspondence, Dan Obermeyer, Director, Glenn County Planning and Community Development Services Agency
- 13) ESRI/FEMA flood hazard map
- 14) Mining and mineral resource language from Glenn and Butte County Codes
- 15) Environmental Assessment for Proposed Restoration Activities on the Sacramento River National Wildlife Refuge, US Fish and Wildlife Service, February 2002 (cover date May 2001)
- 16) Personal communication, Stuart Edell, Butte County
- 17) 2003 Traffic counts, compiled by Traffic Research and Analysis Inc., obtained from Butte County Association of Governments
- 18) correspondence, Kelly Moroney, US FWS Sacramento River National Wildlife Refuge
- 19) correspondence, Ryan Luster, The Nature Conservancy
- 20) Land use conversion statistics, Butte County 2000-2002, available from California Department of Conservation
- 21) Butte County General Plan, Land Use Element

Other General References

Programmatic Environmental Impact Statement/Environmental Impact Report, July 2000 Ecosystem Restoration Program Plan, July 2000

Sacramento River National Wildlife Refuge Draft Comprehensive Conservation Plan and Environmental Assessment, July 2004

